
CALENDAR

of

The University of
Saint Mary's College

Halifax, N. S. Canada

Under the direction of the Jesuit Fathers

1947-1948

A. M. D. G.

HALIFAX, NOVA SCOTIA

1947

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Academic Calendar, 1947-48

1947

- May 31-
June 14 Survey Camp at Truro.
- Sept. 22-27 Supplemental Examinations.
- Sept. 22-27 Registration.
- Sept. 29 Lectures begin.
- Oct. 19 Alumni General Meeting.
- Nov. 1 All Saints' Day.
- Nov. 11 Remembrance Day. Requiem Mass for deceased Alumni.
- Dec. 8 Patronal Feast of the Immaculate Conception. Sodality reception.
- Dec. 19 Christmas Recess.

1948

- Jan. 8 Lectures resume.
- Jan. 21 Term Examinations.
- Feb. 3 Second Semester begins.
- Mar. 22 Public Speaking Contest.
- Mar. 24 Easter recess begins after morning lectures.
- Mar. 30 Lectures resume.
- May 3 Final Examinations.
- May 14 Meeting of the Senate.
- May 17 High Mass Baccalaurate Sermon.
- May 18 Convocation.

Senate of Saint Mary's College

As Constituted in Accordance with the
Act of 1918

CHANCELLOR

HIS EXCELLENCY, MOST REVEREND J. T. McNALLY,
D.D., The Archbishop of Halifax.

VICE-CHANCELLOR

RIGHT REV. MONS. WILLIAM J. BURNS, V.G.

MEMBERS

RIGHT REV. MONS. JOSEPH CURRY, P.P.
VERY REV. T. J. MULLALLY, S.J., President.
SIR JOSEPH CHISHOLM, Kt., L.L.D., Chief Justice of
Nova Scotia.
GEORGE H. MURPHY, M.D., C.M., F.A.C.S.
HON. MR. JUSTICE W. F. CARROLL, B.A., LL.B.
ERNEST I. GLENISTER, B.A., M.D., C.M.
GERALD FLAVIN, LL.B.
JOHN A. WALKER, M.A., LL.B.
REV. J. L. QUINAN, S.T.B., J.C.B.
REV. E. F. CHABOT, S.J., Secretary of the Senate.
REV. CYRIL J. MARTIN, P.P.
WILFRED J. DYER, M.D., B.Sc.
ARTHUR J. HALIBURTON, Esq.
LIEUT.-COL. SYDNEY C. OLAND, V.D., A.D.C.
BERNARD A. O'LEARY, C.E., B.Sc., M.E.I.C.
REV. CHARLES F. CURRAN, D.D., V.F.
NORMAN STANBURY, Esq.
THOMAS J. HANRAHAN, Esq.

SAINT MARY'S COLLEGE

HISTORY

AS we learn from the records of the time, the early years of the 19th century were characterized by a great and practical interest on the part of the Clergy and Catholic people of Halifax in the all-important matter of education. This interest found tangible expression in the foundation, under the inspiration of Right Reverend Bishop Fraser, of a college for Catholic students which was carried on for some years without any financial assistance from or official recognition on the part of the Provincial Government of the day. This college was situated on the site now occupied by Saint Mary's Girls' School on Grafton Street. Its first Principal was the Reverend Father R. B. O'Brien, D.D., and amongst other professors, the staff included Reverend Father Michael Hannon, afterwards Archbishop of Halifax.

In the year 1841 it was determined to make application to the Legislature for recognition and financial assistance and accordingly a measure was introduced carrying the title: "An Act for Incorporating the Trustees of Saint Mary's College at Halifax."

This Bill was entered in the House of Assembly on 17th March 1841 and passed on the 29th day of March of the same year, Mr. Joseph Howe being the Speaker of the House. Thus was the young college launched on its career as an institution of higher learning and although it had been in existence for some years previous, this date is generally accepted as that of the foundation of Saint Mary's College.

The power conferred by the Act of 1841 was granted for a period of eleven years but on the 8th day of April, 1852, a new Act was passed making the privileges of Saint Mary's perpetual.

For some years after this, the President of the College was the Reverend Father Michael Hannon who in 1861 was succeeded by the Reverend Father Patrick Power. Prominent among the students of those days were the late Archbishop

McCarthy, the late Sir Malachi Bowes Daly, Lieutenant Governor of Nova Scotia, who was a Bachelor of Arts of Saint Mary's College, the late Peter O'Hearn, Principal for many years of Saint Patrick's High School and the late Martin Griffin, Parliamentary Librarian for Canada.

It must be remembered that, in those days, educational institutions had, for the most part, an arduous struggle for existence and temporary suspension of activities for some years at a time was not unheard of. Saint Mary's had its own share of such vicissitudes.

In 1893 the Act of 1841 was reaffirmed "in the same manner and to the same extent." It would seem that this reaffirming in 1873 was deemed necessary because the rights of the Act of 1841 "had been allowed to expire through inadvertence."

In the meantime, the site of the College had been transferred to Belle Aire Terrace and placed under the management of the Christian Brothers of the Congregation of Saint John Baptist de la Salle. Subsequently the College was transferred to a building on Barrington Street where we now find Saint Theresa's Home.

On February 23rd 1881 Mr. Patrick Power, one of the best-known and most influential business men in Halifax died. It is not too much to say that, were it not for the generous bequest made by Mr. Power in favour of Saint Mary's College, the institution would be unable to carry on, and if the College is found to be of service in the cause of Catholic Education, the name of Patrick Power must be held in grateful memory.

In 1903 the College was reorganized by His Excellency Archbishop O'Brien and a valuable new property secured at the intersection of Quinpool Road and Windsor Street. The Right Reverend Monsignor Kennedy was appointed President, being succeeded after an interval of about two years by the Right Reverend Monsignor McManus, under whose able and energetic direction the College remained until 1913. In that year, on the invitation of His Excellency Most Reverend E. J. McCarthy, the Christian Brothers of Ireland undertook the direction of the College. On this occasion a considerable addition was made to the building erected by Archbishop O'Brien in 1903. The funds for this addition were raised by popular

subscription. Reverend Brother P. J. Culhane was the first President under the new administration and the College owes much to his ability, prudence and energy.

An important event in the life of the College was the affiliation with the Nova Scotia Technical College which took place in 1916. Under this arrangement, duly matriculated students follow an Engineering Course of Three Years at Saint Mary's, the scope and extent of which is uniform with that followed by the different Colleges affiliated with the Nova Scotia Technical College. On the satisfactory completion of this course, the student may proceed to the Nova Scotia Technical College to take a further course of two years. At the end of this period he is eligible for admission to the degree of B.E. in Civil, Mechanical, Electrical or Mining Engineering.

On December 6th, 1917 occurred the disastrous Halifax Explosion. Happily, none of the students in attendance at the time received any serious permanent injury, but the building like all others in the vicinity suffered severely. Classes were suspended for the time being and the College was placed at the disposal of a United States Army Medical Corps which had come from Boston to minister to the victims of the dreadful catastrophe. When the immediate emergency had passed and the regular civil and military hospitals found themselves in a position to absorb the remaining patients at Saint Mary's, the College reverted once more to its original purposes.

Shortly afterwards, the Legislature again gave its recognition to the status of Saint Mary's College, when, on the 26th day of April 1918 it passed a measure which bore the title: "An Act to Amend the Law Respecting Saint Mary's College, Halifax." The first clause of this Act runs as follows: "Be it enacted by the Governor, Council and Assembly, as follows:— Saint Mary's College, Halifax, originally incorporated by Chapter 39 of the Acts of 1841, shall continue to be deemed and taken to be a University, with all the necessary and usual powers and privileges exercised by Universities, including the power of conferring Degrees in Arts, and in all the other faculties."

Since the passing of this Act the College has availed itself of the privileges conferred upon it by the Legislature, degrees have been conferred in Arts, Science and Commerce. Year by year, the existence of the College is seen to be more and more justified in the number of young men who enter the Priesthood

or the Religious State and in the much increased Catholic representation in Medical, Legal and Engineering Professions.

The steady growth of the College is a source of encouragement and gives reason to believe that Saint Mary's will long continue to play an important part in the educational life of the Province, realizing the dream—or, shall we say, the vision—of the men who in the now distant days of 1841 “by great exertions and very large pecuniary contributions” made possible its foundation.

On the gracious invitation of His Excellency, Most Reverend John T. McNally, D.D., Archbishop of Halifax, and with the consent of the Very Reverend Father General of the Society of Jesus, the Jesuit Fathers of Upper Canada assumed the direction of the College in June, 1940.

On June 24, 1943 *The Halifax Mail* announced that the club house of the Gorsebrook Golf Club and the club grounds south of Inglis Street had been purchased by the Catholic Archdiocese of Halifax as a future site of St. Mary's College. “The property . . . will provide this educational institution with one of the finest buildings and campus sites in Canada . . . Gorsebrook Club House and grounds are part of the history of Halifax—landmarks the oldest citizen can remember—the property which formed part of the vast Enos Collins estate.” (*The Halifax Mail*).

College Organizations

The extra-curricular organizations listed below are officially recognized by the College. The activities of these societies, which aim at developing Christian leadership, are directed by their respective officers with the co-operation and guidance of a member of the faculty.

Eligibility

Students who represent the College in any public activity, dramatics, debating, oratorical contests or athletic competition, or hold office in any student organization, must be in good standing at the time of their election or appointment.

RELIGIOUS

Canadian Student Mission Crusade, St. Mary's College Unit.

This organization aims at the creation of an active and effective interest in Catholic Foreign Missions. Through its activities assistance, financial and other, is given to the many Foreign Mission Centres.

Sodality of the Blessed Virgin Mary. The purpose of the Sodality is to develop Christian character under the protection of the Mother of God and to cultivate the lay apostolate. This two-fold purpose is achieved by conducting weekly meetings at which the Office of the Blessed Virgin is recited and instructions given, and by organizing sections for the promotion of special activities.

Saint John Berchman's Society. Its purpose is to train students for all ecclesiastical functions in the Sanctuary and to develop in them a greater appreciation of the Liturgical life of the Church.

GENERAL

Students' Council. It aims at promoting the best interest of the students by sharing with the Faculty the responsibilities of College government in all non-academic matters and in accordance with the powers conferred by the President.

Tau-Gamma-Sigma Society is restricted to students in the Faculty of Arts, except Freshmen. Its activities are chiefly social and recreational.

The Engineering Society is open to all students in the Engineering Department. Its functions correspond, in general, to those of the Tau-Gamma-Sigma Society.

Delta-Lambda-Kappa Society. Students in the Department of Commerce are eligible for membership. The extra-curricula activities of the Commerce students are controlled by the executive of this society.

Debating Society. The membership of this Society is made up of students of Sophomore, Junior and Senior year in all faculties who are taking English 2, 3, or 4. Meetings are held weekly at which Parliamentary Debates, Open Forum, Mock Trials or other forms of public speaking offer the members ample opportunities to train themselves under direction. The activities of the society include Intercollegiate Debates, Radio debates and Forums, etc.

St. Mary's College Athletic Association regulates the athletic activities of the students. All contests, external and intra-mural are under the direction of the executive of the Association, prizes are provided, College Letters and other awards are regulated.

St. Mary's Playshop. A dramatic organization which prepares and presents programmes of entertainment under the direction of a member of the Faculty.

The Graduate Society is composed of all who have received degrees from Saint Mary's College. It possesses, under circumstances determined by the Act of Incorporation of the College, the right of appointing a member to the Senate of the College. The Society meets annually and at such other times as circumstances may suggest.

The Alumni Society. All former Saint Mary's students are eligible for membership. The Annual General Meeting is held in October on a day appointed by the executive. The Society holds social and recreational functions during the year and presents annually a Gold Medal for scholastic competition in the College.

The Journal. A newspaper edited and issued twice a month by the students.

The Collegian. A pictorial review and record of the main events of the scholastic year under the direction and management of the students.

Saint Mary's College Contingent Officers' Training Corps. The College participates in the program of academic and practical studies approved by the Department of National Defence for University undergraduates hereby students may qualify for a commission in the Canadian Army,—Active Force, Reserve Force or Supplementary Reserve.

ADMISSION REQUIREMENTS

Matriculation. To be admitted to College as an undergraduate a candidate must offer credit in six matriculation subjects. These are:

English, French, Latin, Algebra, Geometry, History. The requirements are the same for all courses leading to a degree.

Advanced Standing. Applicants who present Nova Scotia Grade XII certificates, or the equivalent, may at the discretion of the Board of Studies receive credit in the following subjects: Algebra (Maths. 1a); Trigonometry (Maths. 1c); English 1, French 1 or Latin 1.

Candidates for Engineering asking for advanced standing in Mathematics must have obtained at least 60% in any subject for which such standing is requested.

A student must have the approval of the Registrar for any course selected, and having obtained approval may not subsequently change courses without the sanction of the Registrar.

Fees for the first semester must be paid before or at the time of registration. A student will receive no credit for any courses attended until such fees are paid.

ACADEMIC REGULATIONS

A candidate for a degree must be of good moral character and must have given general satisfaction throughout his course.

Students must in all respects satisfy and conform to the conditions, rules and regulations from time to time set forth in the College calendar.

No student is eligible for prizes or distinctions in any subject in which he has, without satisfactory reason, failed to make ninety per cent of the total attendance in such subject. Students failing to meet this standard of attendance may also be debarred from writing examinations.

The passing mark is 50% in all subjects. A mark between 40% and 50% is a "condition" which must be removed by a supplemental examination in the following September, otherwise the subject must be repeated before the student may proceed in that subject.

A mark below 40% constitutes a failure and deprives a student of any credit in that subject.

Freshmen who have conditions in more than two subjects must repeat Freshman year.

No student will be admitted to Senior year in any course with conditions outstanding in any subject.

No student will be admitted to a term examination, promoted from one year to another or receive any degree, diploma, certificate or transcript of record until all financial accounts have been settled.

BURSAR'S REGULATIONS

1. All fees are payable strictly in advance; in two instalments, one at the time of registration in September, the other before the beginning of the second term in February.

2. No deduction in board or tuition fees is allowed for less than one month's absence.

3. Any damage done to the College buildings, furniture or equipment will be charged to the offending student.

4. Music lessons, Druggist's, Doctor's, Hospital and other outside accounts will not be handled by the Bursar unless a deposit to cover these expenses has been made with the Bursar.

5. Drafts, cheques, money orders, etc., should be made payable at par to ST. MARY'S COLLEGE.

6. Students who remain at the College during vacations will be charged \$1.50 a day for board.

F E E S

| | |
|----------------------|-----------------|
| Tuition | \$100.00 a year |
| Board | 300.00 a year |
| General Charge | 10.00 a year |

This charge covers Examination, Athletic, Library, Collegian and Journal Fees.

* * * *

DAY STUDENTS

| | |
|--|---------|
| First Term—Tuition and General Charge..... | \$60.00 |
| Second Term—Tuition | 50.00 |

RESIDENT STUDENTS

| | |
|---|----------|
| First Term—Board, Tuition and General Charge..... | \$210.00 |
| Second Term—Board and Tuition | 200.00 |

* * * *

| | |
|--|---------|
| Registration Fee (Payable on entrance only)..... | \$ 5.00 |
| Laboratory Fee for Physics, Chemistry, Surveying each | 10.00 |
| Draughting Room Fee | 5.00 |
| Supplemental Examination Fee | 2.00 |
| For Special Examination | 5.00 |
| For Transcript of Record or Statement under the College Seal | 1.00 |
| Graduation Fee with Degree | 10.00 |
| Diploma in Journalism | 10.00 |
| Diploma in Engineering | 5.00 |

Laundry for resident students will be charged at regular laundry rates.

* * * *

| | |
|---|--------|
| Tuition in the School of Journalism | 150.00 |
| Other fees as above. | |

FACULTIES

ARTS FACULTY

The curriculum in Arts is planned to lay the foundation of a broad and liberal education. It stresses therefore, the literary and cultural courses and aims at the development of an interest in all that is best in life. It fosters an appreciation of what is sound in philosophy and beautiful in literature and seeks not merely to familiarize the student with the great facts and movements of history but to create interest in these movements and the personalities identified with them. The formation of studious and literary habits is regarded as of greater importance than the encyclopaedic acquisition of facts while accurate and thorough scholarship in a rather limited field is preferred to superficial acquaintance with many branches of knowledge. In this, as in all courses, classes in religious and moral topics are essential requirements.

Degree of Bachelor of Arts

| FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR |
|---------------|-------------------|-----------------|--------------------|
| English 1 | English 2 | Economics 1 | English 4 |
| French 1 | French 2 | English 3 | French 4 |
| History 2 | History 3 | French 3 | History of Science |
| Latin 1 | Latin 2 | History 4 | Latin 4 |
| Mathematics 1 | Philosophy 2 | Latin 3 | Philosophy 4, 5 |
| Philosophy 1 | Political Science | Philosophy 3, 5 | Religion 4 |
| Religion 1 | Religion 2 | Religion 3 | Sociology |

For the combined Arts and Journalism course, as explained on page 21, the following subjects must be added to the course above required for the Bachelor of Arts degree:

Journalism 1
Assignment Work

Journalism 2

Journalism 3
English 3J

COMMERCE FACULTY

As a broad, technical training is of paramount significance in the field of competitive business, the course leading to a degree of Bachelor of Commerce is offered to students who desire the advantage of higher education and want, at the same time, to prepare themselves for a commercial career. The aim of this faculty is to combine the cultural aspects of education with the general principles of business. The courses are of University standard and a number of them are taken in the faculty of Arts.

The degree of Bachelor of Commerce is conferred upon the satisfactory completion of a course of four years study in this Department.

The following extract from the by-laws of the Institute of Chartered Accountants of Nova Scotia is drawn to the attention of students of Commerce: "The Council, in its discretion, may reduce the period of service to two years or one and may exempt a registered student who holds a Bachelor of Commerce degree from the Primary examination of the Institute."

Degree of Bachelor of Commerce

| FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR |
|---------------|----------------|-------------------|--------------|
| Accounting 1 | Accounting 2 | Accounting 3 | Accounting 4 |
| Economics 1 | Commercial Law | Auditing 1 | Auditing 2 |
| English 1 | Economics 2 | Economics 3 | Economics 4 |
| French 1 | English 2 | English 3 | English 4 |
| Mathematics 1 | French 2 | Philosophy 3 | History 4 |
| Philosophy 1 | Philosophy 2 | Political Science | Philosophy 4 |
| Religion 1 | Religion 2 | Religion 3 | Religion 4 |
| | | | Sociology |

Students in Arts may obtain the degree of Bachelor of Commerce by taking the following courses in the Department of Commerce, in addition to the subjects required for the Bachelor of Arts degree as shown on page 18.

| | | | |
|--------------|----------------|--------------|--------------|
| Accounting 1 | Accounting 2 | Accounting 3 | Accounting 4 |
| | Commercial Law | Auditing 1 | Auditing 2 |
| | Economics 2 | Economics 3 | Economics 4 |

If the courses in Accounting 1 and 2, Commercial Law and Economics 2 and 3 are completed before graduating in Arts, the Degree of Bachelor of Commerce can be obtained in one additional year.

ENGINEERING FACULTY

This faculty was established, in affiliation with the Nova Scotia Technical College, to prepare students who wish to qualify for a degree in Engineering. A Diploma in Engineering, which admits the holder to Nova Scotia Technical College without examination, is given for the successful completion of a three year course. Students who have received a Diploma in Engineering may obtain a Degree of Bachelor of Science by taking the Fourth Year of Engineering outlined below.

For the Diploma in Engineering, the syllabus of studies is that prescribed by Nova Scotia Technical College for the first three year of its five year course. The first three years are given only at the affiliated Colleges, of which St. Mary's is one together with Acadia University, Dalhousie University, King's College, Memorial University, Mount Allison University and St. Francis Xavier University.

With a Diploma in Engineering a student may enter any one of the departments of Engineering at the Nova Scotia Technical College, either Civil, Electrical, Mechanical or Mining, and obtain the Degree of Bachelor of Engineering at the successful completion of the last two years of the five year course.

Bachelor of Science with Engineering

| FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR |
|---------------|---------------|-------------------|------------------|
| Chemistry 1 | Chemistry 2 | Chemistry 3 | English 4 |
| Draughting 1 | Descriptive | Economics 1 | Ethics (Phil. 4) |
| English 1 | Geometry | Geology | Materials of |
| French 1 | Draughting 2 | Graphical Statics | Engineering |
| or Latin 1 | Engineering | Mathematics 3 | Mathematics 4 |
| Mathematics 1 | Problems | Mechanics 1 | Mechanics 2 |
| Physics | English 2 | Physics 3 | Religion 4 |
| Religion 1 | Mathematics 2 | Religion 3 | Strength of |
| | Physics 2 | Survey 2 | Materials |
| | Religion 2 | | Thermodynamics |
| | Survey 1 | | |
| | Survey Camp | | |

Diploma in Engineering

As in the first three years of the B.Sc. Course, with the addition of Mechanics 2 in third year.

SCHOOL OF JOURNALISM

This school was established in 1945 under the direction of R. J. Rankin, Managing Editor of the Halifax Herald, and in co-operation with the local newspapers, the Halifax Herald, the Halifax Mail, the Halifax Star and the Halifax Chronicle. Professional courses are conducted by professional journalists. Academic subjects are courses given in the Faculty of Arts. At the successful completion of the course a Diploma in Journalism is awarded.

Students may combine the course in Journalism with that of Arts and obtain both the Diploma in Journalism and the Degree of Bachelor of Arts, the Diploma at the end of three years, the Degree in the following year. The combined syllabus is shown on page 18, under the Faculty of Arts.

Diploma in Journalism

FIRST YEAR

English 1
French 1
Journalism 1
History 2
History of Science
Philosophy 1
Religion 1

SECOND YEAR

Assignment Work
English 2
French 2
Journalism 2
History 4
Psychology (Phil. 2)
Religion 2

THIRD YEAR

English 3J
Journalism 3
Ethics (Phil. 4)
Political Science
Religion 3
Sociology

COURSES OF STUDY

Bachelor of Arts

| FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR |
|---------------|-------------------|-----------------|--------------------|
| English 1 | English 2 | Economics 1 | English 4 |
| French 1 | French 2 | English 3 | French 4 |
| History 2 | History 3 | French 3 | History of Science |
| Latin 1 | Latin 2 | History 4 | Latin 4 |
| Mathematics 1 | Philosophy 2 | Latin 3 | Philosophy 4, 6 |
| Philosophy 1 | Political Science | Philosophy 3, 5 | Religion 4 |
| Religion 1 | Religion 2 | Religion 3 | Sociology |

Bachelor of Commerce

| | | | |
|---------------|----------------|-------------------|--------------|
| Accounting 1 | Accounting 2 | Accounting 3 | Accounting 4 |
| Economics 1 | Commercial Law | Auditing 1 | Auditing 2 |
| English 1 | Economics 2 | Economics 3 | Economics 4 |
| French 1 | English 2 | English 3 | English 4 |
| Mathematics 1 | French 2 | Philosophy 3 | History 4 |
| Philosophy 1 | Philosophy 2 | Political Science | Philosophy 4 |
| Religion 1 | Religion 2 | Religion 3 | Religion 4 |
| | | | Sociology |

Bachelor of Science

with Engineering

| | | | |
|---------------|---------------|-------------------|------------------|
| Chemistry 1 | Chemistry 2 | Chemistry 3 | English 4 |
| Draughting 1 | Descriptive | Economics 1 | Ethics (Phil. 4) |
| English 1 | Geometry | Geology | Materials of |
| French 1 | Draughting 2 | Graphical Statics | Engineering |
| or Latin 1 | Engineering | Mathematics 3 | Mathematics 4 |
| Mathematics 1 | Problems | Mechanics 1 | Mechanics 2 |
| Physics 1 | English 2 | Physics 3 | Religion 4 |
| Religion 1 | Mathematics 2 | Religion 3 | Strength of |
| | Physics 2 | Survey 2 | Materials |
| | Religion 2 | | Thermodynamics |
| | Survey 1 | | |
| | Survey Camp | | |

Diploma in Engineering

As in the first three years of the B.Sc. course, with the addition of Mechanics 2 in third year.

Diploma in Journalism

| | | |
|--------------------|----------------------|-------------------|
| English 1 | Assignment Work | English 3J |
| French 1 | English 2 | Journalism 3 |
| Journalism 1 | French 2 | Ethics (Phil. 4) |
| History 2 | Journalism 2 | Political Science |
| History of Science | History 4 | Religion 3 |
| Philosophy 1 | Psychology (Phil. 2) | Sociology |
| Religion 1 | Religion 2 | |

Courses of Instruction

ACCOUNTING

Accounting 1. Fundamental Accounting. The Journal and Journalizing; the Ledger, Posting, Trial Balance; the Work Sheet, Profit and Loss statement, Balance Sheet; Cash, Purchases, Sales and General Journals; Notes and Drafts; Deferred Charges.

TEXT: Twentieth Century Accounting, I, *Carlson, Prickett, Forkner*, (Southwestern Publishing Co.).

References: Principles of Accounting, *Finney*; Accounting, Principles and Practice, *Hatfield, Sanders, Benton*.

Three hours a week, two semesters.

Accounting 2. General Accounting. Columnar Journals; Controlling Accounts; Partnership Accounting; Voucher System; Adjustment of Accounts; Accruals; Corporation Accounting; Manufacturing Accounting; Instalment, Departmental, Consignment Sales; Comparative Reports and Graphs.

TEXT: Twentieth Century Accounting, II, *Carlson, Prickett, Forkner*, (Southwestern Publishing Co.).

References: Principles of Accounting, *Finney*; Accounting, Principles and Practice, *Hatfield, Sanders, Benton*.

Lectures: Three hours a week, two semesters.

Laboratory: Two hours a week, two semesters.

Accounting 3. Corporation Accounting 1. Forms of Business Organization; Entries to open Books of Account; Company Books and Statements; Classes of Stock; Conversion of Partnership into a Joint Stock Company; Profits, Appropriations and Balance Sheet; Shares without par value; Conversion; Increase or Decrease of Capital Stock; Donated Shares; Treasury Stock; Forfeiture of Shares; Debenture Bonds and

Mortgage Bonds; Sinking Funds; Manufacturing Accounts, Financial Statements.

TEXT: Limited Companies and their Accounts, *Ferguson and Crocombe*, (Pitman).

Reference: Principles of Accounting, Intermediate, *Finney*; Accounting Principles and Practices, *Smails and Walker*.

Lectures: Three hours a week, two semesters.

Laboratory: Two hours a week, two semesters.

Accounting 4. Corporation Accounting 2. Amalgamation of Companies; Holding Companies, Consolidated Balance Sheets, Factors affecting Financial Statements, Taking up profits of Subsidiaries, Sinking funds of Subsidiaries, Preferred and Common Shares held by Parent Company; Reconstruction, Reorganization; Preferred Shares in winding up; Corporation Terminology; Source and Application of Funds.

TEXT: Limited Companies and their Accounts, *Ferguson and Crocombe*, (Pitman).

References: Principles of Accounting, Advanced, *Finney*; Accounting Principles and Practice, *Smails and Walker*.

Lectures: Three hours a week, two semesters.

Laboratory: Two hours a week, two semesters.

AUDITING

Prerequisites: Accounting 1 and 2.

Auditing 1. General Principles of Auditing. Duties and Responsibilities of Auditors; Analysis of Accounts; Auditing Methods; Problems;

TEXT: *Smails on Auditing*.

Two hours a week, two semesters.

Auditing 2. Advanced Auditing. Types of Audits, their advantages and limitations; Examination of Audit Reports; Problems.

TEXT: *Smails on Auditing*; Nova Scotia Companies Act

Two hours a week, two semesters.

CHEMISTRY

Chemistry 1. *General Chemistry.* An introduction to fundamental principles; the kinetic molecular theory; theory of ionization and of the factors influencing reaction velocities and equilibrium; the periodic table and the properties and reactions of representative elements.

TEXT: College Chemistry, Smith, (Appleton-Century)

Lectures: Two hours a week, two semesters

Laboratory: Three hours a week, two semesters.

Chemistry 2. *Qualitative Analysis.* An introductory course in the theory and techniques of inorganic qualitative analysis; detection of acidic and basic radicals in mixtures of salts; Ionic equilibria, solubility products, etc.

TEXTS: Qualitative Analysis, *Engelder*, (John Wiley).

Qualitative Analysis, *Hardsuch*, (John Wiley).

Lectures: One hour a week, two semesters.

Laboratory: Six hours a week, two semesters.

Chemistry 3. *Physical Chemistry.* A lecture course dealing with present-day theories of atomic and molecular structure and the modern interpretation of the more important chemical phenomena.

TEXT: Principles of Chemistry, *Hildebrand*, (Macmillan).

Two hours a week, two semesters.

Chemistry 4. *Organic Chemistry.* A study of the chief aliphatic and aromatic compounds in particular of those of greater importance to industry or medicine.

TEXT: Organic Chemistry: *Perkin & Kipping*, (Lippincott).

Lectures: Three hours a week, two semesters.

Laboratory: Three hours a week, two semesters.

COMMERCIAL LAW (1948-1949)

Negotiable Instruments and their validity; contracts and terms of sale; legal liability in various business transactions; company formation and dissolution; bankruptcy; insurance; more important Canadian legislation affecting trade and commerce.

TEXT: Summary of Canadian Commercial Law, *Anger*,
(Pitman & Sons).

Two hours a week, two semesters.

DESCRIPTIVE GEOMETRY

Problems on points, lines, plane and warped surfaces, with emphasis on practical draughting related to mining, construction, geological and topographical applications.

TEXTS: Applied Descriptive Geometry, *Warner*, (McGraw-Hill).

Basic Problems in Descriptive Geometry, *Turner & Buck*, (Ronald Press).

Four hours a week, two semesters.

DRAUGHTING

Draughting 1. The work of this course has been so arranged as to develop the technical skill of the student and to train him to visualize and reproduce simple objects by drawings. Special attention is given to lettering.

TEXTS: Technical Drawing; Technical Drawing Problems, *Giesecke, Mitchell & Spenser*, (Macmillan).

Four hours a week, two semesters.

Draughting 2. Advanced working drawings of more complicated machine parts. Plotting from actual surveys of various areas selected at summer survey camp.

TEXT: Technical Drawing, *Giesecke, Mitchell & Spenser*, (MacMillan).

Four hours a week, two semesters.

ECONOMICS

Economics 1. *General Principals of Economics.* (1947-1948)

Human Wants and Scarcity; fundamental concepts; characteristics of Capitalism; nature of Production, productive factors; Economic specialization; organization of Business, Business units, Business risks; Exchange, Money; Investment and Commercial Banking; fluctuation in purchasing power, in Business activity; price determination; Costs of Production; competitive prices, monopoly prices; International Trade, distribution of Income; Rent, Wages, Interest, profits; the principles of Consumption.

TEXT: *Fundamentals of Economics, Gemmill, (Harper).*

Three hours a week, two semesters.

Economics 2. *Canadian Problems.* (1947-1948).

National and Political life; Economic developments; Population and its problems; the growth of Industry and Commerce; Agriculture in the economy of Canada; Cultural life; Imperial and External relations.

TEXT: *Canada, Brady, (Benn).*

Reference: The Canada Year Book; Sirois Report I.

Three hours a week, one semester.

Regular compulsory assignments.

Economics 3. *Corporation Finance.* (1948-1949).

The Corporation and its Financial Structure; Common Stock; Stocks with preferences; Bonds; the promotion of a Business; Valuation of a Business; Financing manufacture; Promotion of a Public Utility; marketing of Securities; Working Capital; Adjustments for wasting assets and future losses; computation of Surplus; distributing Profits; the voting trust; Investment Companies; Business expansion; Industrial combinations; Corporation failures, reorganizations.

TEXT: *Corporation Finance, Dewing, (Ronald Press).*

Three hours a week, two semesters.

Regular compulsory assignments.

Economics 4. *American Economic History.*

Economic causes of the American Revolution; Finance and Tariff; Westward expansion from the Revolution to the Civil War;; Economic causes of the Civil War, significance; the Agrarian Revolution; the Industrial Revolution; consolidation of Business; the Labor movement; Financial History since 1860; Economic Imperialism; First World War; Economic Depression and Collapse; the New Deal; World Economic relations.

TEXT: American Economic History, *Faulkner*, (Harper).

Three hours a week, two semesters.

Regular compulsory assignments.

ENGINEERING PROBLEMS

The application to practical problems of all mathematics and physics already covered or presupposed. The course serves as a review of acquired knowledge and aims at developing thoroughness and accuracy.

TEXT: Engineering Problems, *Cell*, (McGraw-Hill).

Three hours a week, two semesters.

ENGLISH

English 1.

1a. *Survey of English Literature, from the Anglo-Saxon Invasion to the middle of the Seventeenth Century*, with special attention to Bede, Malory, Chaucer; More, Spenser, Southwell, Campion.

1b. *Elizabethan Drama*: Shakespeare, Marlowe, Ben Jonson; for intensive study, Hamlet, Macbeth.

1c. *The Theory of Poetry*. The basic elements of poetry: experience, imagery, feeling, rhythm, language: technical elements, versification; stanza forms, melody: illustrative reading and training in critical appreciation.

1d. *Composition*. Regular assignments on the matter treated in the previous sections.

1e. *Debates*, under direction. All students must take part in the schedule of debates for the season.

TEXTS: *The Literature of England, Vol I., Woods, Watt, Anderson*, pp. 1-563, (Scott, Foresman).

Composition text to be announced.

Five hours a week, two semesters.

English 2.

2a. *Survey of English Literature, XVII - XVIII Century*. Donne, Herrick, Crashaw, Isaak Walton; Milton, Bunyan, Butler, Pepys, Dryden, Addison, Swift, Pope, Goldsmith, Samuel Johnson, Edmund Burke, Boswell, Sheridan.

2b. *Shakespearian Drama*. Study and discussion of the plays of Shakespeare and the literary canons they exemplify. References to and evaluation of representative Shakespearian critics. For intensive study, Othello, King Lear.

2c. *The Essay*. A critical study of the Essay, its literary content, characteristics and origin.

2d. *Composition*. Critical and Imitative essays on the authors studied.

2e. *Debating*. One hour a week. Active membership in the College Debating Society is a requisite of English II.

TEXT: Literature of England, Vol. I.: *Woods, Watt, Anderson*, pp. 563 sqq., (Scott, Foresman).

Four hours a week, two semesters.

English 3.

3a. *English Literature: the Age of Romanticism*. The approach to Romanticism, Gray, Cowper, Burns, Blake: Romantic Poetry, Wordsworth, Coleridge, Scott, Byron, Shelley, Keats; the minor poets, Southey, More, Hood, Landor: Romantic Prose, Lamb, Hazlitt, De Quincey.

The Victorian Era. Prose: Macaulay, Newman, Carlyle, Ruskin, Matthew Arnold, Pater:

Poetry: Tennyson, the Brownings, Newman, Emily Bronte, Matthew Arnold, Rosetti, Thomson, Meredith: Fitzgerald, Swinburne.

3b. *Nineteenth Century Novelists*. Scott, Jane Austen, Dickens, Thackeray, the Brontes, George Eliot, Trollope, Meredith, Hardy, Stevenson, Bennet, Henry James.

3c. A critical study of the novel, as exemplified by the authors read during the year.

3d. Monthly essays on the Literature studied, and at least six critical book reports on Novels of the authors studied.

3e. *Debating*. One hour a week. Active membership in the College Debating Society is a requisite of English III.

TEXTS: The Literature of England, Vol. 11; *Woods, Watt, Anderson*, (Scott, Foresman).

Four hours a week, two semesters.

ENGLISH

English 1.

1a. *Survey of English Literature, from the Anglo-Saxon Invasion to the middle of the Seventeenth Century*, with special attention to Bede, Malory, Chaucer; More, Spenser, Southwell, Campion.

1b. *Elizabethan Drama*: Shakespeare, Marlowe, Ben Jonson; for intensive study, Hamlet, Macbeth.

1c. *The Theory of Poetry*. The basic elements of poetry: experience, imagery, feeling, rhythm, language: technical elements, versification; stanza forms, melody: illustrative reading and training in critical appreciation.

1d. *Composition*. Regular assignments on the matter treated in the previous sections.

1e. *Debates*, under direction. All students must take part in the schedule of debates for the season.

TEXTS: *The Literature of England, Vol I., Woods, Watt and Anderson*, pp. 1-563, (Scott, Foresman).

Composition text to be announced.

Five hours a week, two semesters.

English 2.

2a. *Survey of English Literature, XVII - XVIII Century*. Donne, Herrick, Crashaw, Isaak Walton; Milton, Bunyan, Butler, Pepys, Dryden, Addison, Swift, Pope, Goldsmith, Samuel Johnson, Edmund Burke, Boswell, Sheridan.

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TEXT: Literature of England, Vol. I.: *Woods, Watt, Anderson*, pp. 563 sqq., (Scott, Foresman).

Four hours a week, two semesters.

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3a. *English Literature: the Age of Romanticism*. The approach to Romanticism, Gray, Cowper, Burns, Blake: Romantic Poetry, Wordsworth, Coleridge, Scott, Byron, Shelley, Keats; the minor poets, Southey, More, Hood, Landor: Romantic Prose, Lamb, Hazlitt, De Quincey.

The Victorian Era. Prose: Macaulay, Newman, Carlyle, Ruskin, Matthew Arnold, Pater:

Poetry: Tennyson, the Brownings, Newman, Emily Bronte, Matthew Arnold, Rosetti, Thomson, Meredith: Fitzgerald, Swinburne.

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3c. A critical study of the novel, as exemplified by the authors read during the year.

3d. Monthly essays on the Literature studied, and at least six critical book reports on Novels of the authors studied.

3e. *Debating*. One hour a week. Active membership in the College Debating Society is a requisite of English III.

TEXTS: The Literature of England, Vol. 11; *Woods, Watt, Anderson*, (Scott, Foresman).

Four hours a week, two semesters.

English 4.

4a. *Twentieth Century Literature*. Modern trends, and living authors, analyzed and criticized; drama, poetry, fiction, essays.

The Catholic Revival. The Wards, Alice Meynell, the Maynards, Chesterton, Belloc.

4b. Modern Drama, the One-Act Play.

4c. The Short Story.

4d. Composition. Essays imitative of modern trends in style. Letter writing and Business Composition. Debating material, Radio talks.

4e. Debating. Active membership in the College Debating Society.

TEXTS: *The Literature of England*, Vol. II, *Woods, Watt, Anderson*, (Scott, Foresman).

The Catholic Revival in Literature, *Alexander*, (Bruce).

Four hours a week, two semesters.

FRENCH

French 1. A thorough review of Grammar, supplemented by a course of translation from French into English and English into French, involving harder syntactical constructions. Drill in dictation and conversation. Translation from modern authors into English.

Four hours a week, two semesters.

French 2. Grammar review emphasising verb forms and idiomatic expression. A part of each period will be devoted to French conversation. A study of two selected classics, one each semester. Readings and conversations on material in "Figaro".

Three hours a week, two semesters,

French 3. A survey of French literature, seventeenth and eighteenth centuries. Collateral readings and reports.

Three hours a week, two semesters,

French 4. French literature, nineteenth and twentieth centuries. Study and book reports on at least six texts from the Library.

Three hours a week, two semesters,

GEOLOGY (1947-1948)

This course lays special emphasis on the application of geologic principles to the problems of engineering. A brief synopsis of stratigraphical and historical geology. A microscopic study of rocks with special reference to forms of description and methods of classification as represented by a standard set of fifty rocks.

TEXT: *Geology, Emmons, Thiel, Stauffer, Allison, (Ginn).*

Three hours a week, two semesters.

GRAPHICAL STATICS

Equilibrium polygon and polygonal frames for all systems of loads; graphical representations of shears and moments for non-continuous and continuous beams; roof trusses; dead, live and wind load stresses for fixed ends and ends on rollers; maximum stresses; simple bridge trusses; simple cantilevers.

TEXT: *Applied Mechanics, Poorman, (McGraw-Hill).*

Three hours a week, two semesters.

HISTORY

History 1. Mediaeval History. From the beginning of the Christian era to 1500 A.D. Conflict between Paganism and Christianity; Constantine; the Invasion of the Barbarians; the evangelization of Europe; the Empire of Charlemagne; Germany and the conflicts between Empire and Papacy; Norman conquests of England and Italy; the invasion of Ireland; France under the Capetians; the Hundred Years War; Feudalism; Chivalry; the Crusades; the Universities; the Great Schism of the West; Portuguese explorations and the voyages of Columbus.

TEXT: Christian Era, Weber Vol. I., (Catholic Education Press).

Two hours a week, two semesters.

History 2. Renaissance, Reformation, Revolution. 1500-1815 A.D. Background of the Renaissance in Italy; Petrarch and Dante; European Literature and Culture in the fourteenth and fifteenth centuries; the Humanists.

The Reformation: Religious conditions in Europe in the fifteenth century; Luther; the course of the Reformation in the sixteenth century; the Counter-reformation.

Empire of Charles V; the Thirty Years War; Age of Louis XIV; Wars, Social conditions; Conflict of English and French interests in America and India; Seven Years War; development of Prussia; the French Revolution; Robespierre; Napoleonic Era.

TEXT: Political and Cultural History of Modern Europe, Vol. I, Hayes, (Macmillan).

Two hours a week, two semesters.

History 3. Modern History. 1815-1914 A.D.

The era of Metternich, 1815-1830, Congress of Vienna; the Industrial Revolution; Democratic Reform; Revolutions of 1848; the growth of Nationalism; Karl Marx and Modern Socialism; Anarchism and Syndicalism; Great Britain and

Ireland; Latin Europe; Teutonic Europe; the Russian Empire; dismemberment of the Ottoman Empire; the New Imperialism; European civilization in America and Africa; the British Empire; International relations, (1871-1914).

TEXT: A Political and Cultural History of Modern Europe, Vol. II, *Hayes*, (Macmillan).

Two hours a week, two semesters.

History 4. *History of Today.* (1947-1948)

World War I, 1914-1919; its background and immediate causes; the entry of the United States; military operations; poison gas and propaganda; peace moves and war aims; the Peace Conference of Paris; the Treaty of Versailles; other peace treaties.

Twenty Years Armistice; the League of Nations; Reparations; the Depression; unrest; national developments in Great Britain, Ireland, France, the Far East, the United States.

Second World War, 1939-1945; the background; outbreak of war; the Sitzkrieg, Blitzkrieg; the fall of France, the Battle of Britain; invasion of the Soviet Union; Pearl Harbour and the entry of the United States; the African Campaign; Italy; the invasion of Normandy; Victory in Europe; the Atomic Bomb; Victory in Japan; the aftermath.

TEXT: The World since 1914, *Langsam*, (Macmillan)

Two hours a week, two semesters.

HISTORY OF SCIENCE

The purpose of this course is not only to give an outline of scientific progress through the ages, but also to trace the influence of the scientific background on literature and political thought. The course falls naturally into six parts: Science in the Ancient World, The Middle Ages, The Renaissance, The Newtonian Revolution, The Nineteenth Century and the New Era in Physics.

REFERENCES: The Rise of Modern Physics, *Crew*.

History of Mathematics, *Ball*.

The History of Biology, *Nordenskiöld*.

A History of Chemistry, *Brown*.

Greek Astronomy, *Heath*.

A Short History of Medicine, *Singer*.

The Autobiography of Science, *Moulton and Schiffers* (Doubleday).

Two hours a week, two semesters.

JOURNALISM

Journalism 1. Introduction to Journalism. Subjects to be discussed in lectures will include: Journalism as a Career, News Values; Style of News Writing; Construction of Articles; Ethics and Public Relations. Minor assignment work, instruction in interviews, etc.

Lecturer: R. J. Rankin, Managing Editor, The Halifax Herald.

Two hours a week, two semesters.

Journalism 2.

2a. Reporting and newswriting, including assignments along the lines of actual newspaper work. Training for more important duties in the writing field.

Lecturer: F. W. Doyle, Associate Managing Editor, The Halifax Herald.

Two hours a week, one semester.

2b. Copy and proof-reading, headline writing. Background training for desk-work and accurate and effective handling of news material.

Lecturer: Berton Robinson, Associate Editor, The Halifax Chronicle.

Two hours a week, one semester.

Journalism 3. (1947-48)

Newspaper editing, features, editorials, newspaper policy and practice.

LATIN

Latin 1.

- 1a. *Authors.* Cicero, In Catilinam, I & III; Aeneid II; Ovid, Metamorphoses; Sallust, Bellum.
- 1b. *Composition.* Based on prescribed authors.
- 1c. *Roman History.* Text to be announced.
Four hours a week, two semesters.

Latin 2.

- 2a. *Authors.* Cicero, Pro Archia; Livy, Book XXI; Virgil, Aeneid VI.
- 2b. *Composition.* Based on prescribed authors.
- 2c. *History of Latin Literature.* Latin Literature, Mackail.
Four hours a week, two semesters.

Latin 3.

- 3a. *Authors.* Cicero, Pro Lege Manilia; Horace, Odes & Epodes, Ars Poetica.
- 3b. *Composition.* Bradley's Arnold, ex. 1-34.
- 3c. *Latin Prosody,* A study of the rules of Latin prosody, scansion and verse forms.
Four hours a week, two semesters.

Latin 4.

- 4a. Horace, Satires and Epistles; Tacitus: the minor poets, Ennius, Catullus, Tibullus, Phaedrus, Seneca, Martial.
- 4b. *Composition.* Bradley's Arnold, exercises 35-57.
- 4c. *Ecclesiastical Latin.* From Latin for Use, Holsapple (Crofts).
Four hours a week, two semesters.

MATERIALS OF ENGINEERING

A presentation of the physical properties of common materials used in structures and machines, together with descriptions of their manufacture and fabrications. Testing Machines and Standard Tests.

TEXT: Properties of Materials of Engineering, *Murphy*, (International Text Book).

One hour a week, two semesters.

MATHEMATICS

Mathematics 1.

1a. *Algebra*. Graphs, Theory of Quadratic Equations, Maximum and Minimum Values of Simple Functions, Ratio and Proportion, Variations, Progressions, Simple Series, Permutations and Combinations, Binomial Theorem, Annuities, Determinants.

1b. *Geometry*. Review of Plane Geometry with special emphasis on similar triangles; Mensuration; introductory Solid Geometry.

1c. *Trigonometry*. Plane Trigonometry including Identities, Equations, establishment of the ordinary formulae, Logarithms, Solution of Triangles Heights and Distances.

TEXTS: Senior Algebra, *Crawford*, (Macmillan).
School Geometry, *Hall and Stevens*, (Macmillan).
Elementary Trigonometry, *Evans*, (Ginn).

Five hours a week, two semesters.

Mathematics 2.

2a. *Analytic Geometry*. Co-ordinate systems, Transformations, Loci and their equations, the Straight Line, Circle, Parabola, Ellipse, Hyperbola; elementary Analytic Geometry of three dimensions.

TEXT: Analytic Geometry, *Crawley and Evans*, (Croft).

Three hours a week, one semester.

2b. *Differential Calculus*, Study of the Infinitesimals, Limits, Limiting Values of Ratios, Differential Coefficient, Differentiation of Simple, Complex and Transcendental Functions; equations of Tangents and Normals; lengths of Subtangents and Subnormals; determination of Angles of Intersections of Curves; problems on Rates, Maxima and Minima.

TEXT: *Calculus, Evans*, (Ginn).

Three hours a week, one semester.

Mathematics 3. *Integral Calculus*, Standard methods of Integration Formulae. Use of Calculus in determining Areas, Volumes, Centroids, Moments of Inertia, Lengths of Curves and in the solution of other problems occurring in Mechanics and General Physics.

TEXT: *Calculus, Evans*, (Ginn).

Three hours a week, one semester.

Mathematics 4.

4a. *Mathematical Analysis*. Complex Quantities and their Graphical representation, De Moivre's Theorem, Hyperbolic Functions, Expansion of Functions, Fourier's Series, Probability.

TEXT: *Practical Mathematics for Advanced Technical Students, Mann*, (Longmans).

Three hours a week, one semester.

4b. *Spherical Trigonometry*. Relations between the sides and angles of a spherical triangle. Solution of the terrestrial and astronomical triangles. Problems in navigation, surveying and astronomy.

TEXT: *Spherical Trigonometry, Murray*, (Longmans).

One hour a week, one semester.

4c. *Differential Equations.* A more advanced study of Differential Equations and their applications.

TEXT: *Differential Equations, Murray, (Longmans).*

Two hours a week, one semester.

Mathematics 5. *Mathematics of Finance and Statistics.* Compound Interest; Annuities; Bond Valuation; Amortization; Sinking Funds; Index Numbers; Probability; Life Insurance.

TEXTS: *Mathematics of Accounting, Curtis & Cooper.*
Statistical Methods, Philips.

Three hours a week, one semester.

MECHANICS

Mechanics 1. *Mechanics.* Motions and Velocities; Instantaneous Center; Kinematic Chain Velocity diagrams; Cams, Gearing, Belting, Intermittent Motions.

TEXT: *Mechanism, Keown and Fairies, (McGraw-Hill).*

Three hours a week, one semester.

Mechanics 2. *Applied Mechanics.* Co-planar force systems, graphical and analytic methods, application to determination of stresses in common trusses and cranes; Friction, determination of Centroids and Moments of Inertia. Rectilinear, Curvilinear and Rotational motion of particles and solid bodies; Work, Energy and Power. Impulse of Momentum.

TEXT: *Applied Mechanics, Poorman, (McGraw-Hill).*

Three hours a week, one semester.

PHILOSOPHY

Philosophy 1.

1a. *Logic*. Formal Logic, in the traditional manner, to which is added an elementary course in Inductive Reasoning.

TEXT: *The Science of Correct Thinking, Bittle, (Bruce)*.

Three hours a week, one semester.

1b. *Epistemology*. The problem of knowledge; truth and error; certitude; the criterion of certitude: Scepticism, Descartes' Doubt, Idealism, Relativism; the problem of the Universals, the criterion of Truth; Induction and Deduction.

TEXT: *Reality and the Mind, Bittle, (Bruce)*.

Three hours a week, one semester.

Philosophy 2. *Psychology*.

Philosophical Psychology. In the first semester Man is studied as a living organism. The nature of life, the nervous system, the senses, internal and external, imagination, memory, instinct and appetite are studied as functions of the animal organism.

In the second semester, Man as a rational animal is studied. Intellection, Volition, Freedom of the Will; the nature of the Soul, its spirituality, immortality and its origin are treated; finally the Human Person and its destiny.

TEXT: *The Whole Man, Bittle, (Bruce)*.

References: *Basic Writings of St. Thomas, Pegis;*
Psychology, Maher.

Four hours a week, two semesters.

Philosophy 3. *Metaphysics*. (1947-48)

3a. *General Metaphysics*. Ontology: the notion of Act and Potency; the notion of Being; Causes and the Principle of Causality; Finality; the Transcendentals; the Predicaments; Substance and Accident; Relations.

TEXT: *The Philosophy of Being, Renard, (Loyola U. Press)*

References: *The Domain of Being, Bittle; General Metaphysics, McCormick; General Metaphysics, Rickaby;*
Manual of Modern Scholastic Philosophy, Mercier.

Four hours a week, one semester.

3b. *Special Metaphysics*. Cosmology: the nature and origin of the material universe; the nature of physical bodies; the constitution of matter.

Natural Theology: The existence of God, His nature and attributes; Creation and Providence; Theism and Atheism.

TEXT: *Special Metaphysics*, McCormick, (Loyola U. Press).

References: *Natural Theology*, Joyce; *Manual of Scholastic Philosophy*, Mercier; *Basic Writings of St. Thomas*, Pegis.

Four hours a week, one semester.

Philosophy 4. *Ethics*.

4a. *General Ethics*. The nature of Human Acts; the morality of actions; the distinction between moral good and moral evil; the natural law, positive law; conscience; rights and duties.

4b. *Special Ethics*. The application of general principles; individual and social rights and obligations; the nature of private property; domestic society, marriage and divorce; civil society, its nature and forms; Church and State; the ethics of international relations; peace and war.

TEXT: *Readings in Ethics*, Leibell, (Loyola U. Press).

References: *Liberty*, in its use and abuse; *Cox*; *The Science of Ethics*, Cronin; *Basic Writings of St. Thomas*, Pegis.

Four hours a week, two semesters.

Philosophy 5. *History of Philosophy, Ancient*. (1946-47)

Ancient Philosophy with particular attention to the teachings of Socrates, Plato, Aristotle and Plotinus among the Greeks; and to St. Augustine as representative of the early Christian philosophers.

TEXT: *History of Philosophy*, Turner, (Ginn).

References: *Introduction to Philosophy*, Maritain; also the original texts of the individual philosophers studied.

One hour a week, two semesters.

Philosophy 6. *History of Philosophy, Mediaeval and Modern.* (1947-48).

Mediaeval Philosophy: the development of Scholastic Philosophy and the system of St. Thomas Aquinas as the complete synthesis of mediaeval thought.

Modern Philosophy: Descartes, Locke, Hume, Kant, Hegel, Comte and Spencer are taken for special study. The revival of Scholasticism and the Realistic movement are treated as present day tendencies.

TEXT: *History of Philosophy, Turner, (Ginn).*

References; History of Mediaeval Philosophy, DeWulf;
Origins of Contemporary Philosophy, Mercier.

One hour a week, two semesters.

PHYSICS

Physics 1. *General Physics.* Introduction to **Mechanics, Sound, Light, Heat and Electricity.**

TEXT: College Physics, *Stewart*, (Ginn).

Lectures: Three hours a week, two semesters.

Laboratory: Three hours a week, two semesters.

Physics 2. *Light, Heat and Sound.* Basic Physical laws related to Light, Heat and Sound are integrated and verified experimentally.

TEXT: Sound, Light and Heat, *Duncan and Starling*, (Macmillan).

Lectures: Three hours a week, two semesters.

Laboratory: Three hours a week, two semesters.

Physics 3. *Electricity.*

3a. *Magnetism and Electricity.* Direct and Alternating currents with a practical mathematical analysis.

3b. *Electronics.* A lecture and laboratory course in which the basic principles and applications of thermionic emission are studied and investigated experimentally.

TEXTS: Elements of Electricity, *Timbie*, (John Wylie).

An Introduction to Electronics, *Hudson*, (Macmillan).

Lectures: Three hours a week, two semesters.

Laboratory: Three hours a week, two semesters.

-POLITICAL SCIENCE (1947-1948)

The State or Body Politic as distinct from the Nation. its history and determining elements. Types of States: forms of Government; theories of the State, Anarchism, Socialism, Guild Socialism, Bolshevism, Fascism; the totalitarian concept of government in theory and practice.

The Legislature, Executive and Judiciary in modern constitutional law; bicameral and unicameral systems; the electorate, various methods of democratic representation; referendum and plebiscite.

Constitutions of states; the British and American Constitutions; evolution of the British Commonwealth of Nations.

International relations and international law. Treaties. The League of Nations. The Permanent Court of International Justice. The Atlantic Charter. The Yalta Agreement. The Charter of the United Nations.

TEXT: This course will be taught principally from Government publications, national Constitutions and other pertinent documents.

Three hours a week, two semesters.

RELIGION

Religion 1. The Christian Revelation; the documents of revelation, the Gospels, their genuinity and trustworthiness; Christ's claims, a Prophet, the Messiah, the Son of God, True God; the proofs of Christ's claims, His prophesies and miracles, the Resurrection. The Church of Christ; its mission; the College of Apostles; the Primacy of Peter; Authority, Infallibility, Necessity of the Church; its marks, One, Holy, Catholic and Apostolic. Church and State.

TEXT: The Defense of the Catholic Church, *Doyle*, (Benziger).

Four periods a week, two semesters.

Religion 2. Faith, nature and obligation; the Rule of Faith; the existence of God, His Attributes; the Trinity; the Creator; Creation and Evolution; the end of Creation; Original Justice and Original Sin; the Immaculate Conception; the Human Soul; the Angels; Judgment, Hell, Purgatory, Heaven.

TEXT: God and Creation, *Chetwood*, (Benziger).

Four periods a week, two semesters.

Religion 3. Redemption; the hypostatic union; the human will and human intellect of Christ; the Redeemer; Priest, Prophet and King; the worship of Christ. Mary and the divine maternity; devotion to Mary and the aSins; veneration of relics and images; Actual grace, its necessity; Efficacious grace; Justification and Sanctifying Grace.

TEXT: God the Redeemer, *Herzog*, (Benziger).

Four periods a week, two semesters.

Religion 4. The Sacraments, their institution, nature and effect. The Sacrifice of the Mass. All are related in detail with proofs and explanations from the Scriptures, tradition, the teachings of the Fathers, the Council.

TEXT: Channels of Redemption, *Herzog*, (Benziger).

Four periods a week, two semesters.

SOCIOLOGY (1947-1948)

Man as a Social Being; complexity of Social Life; external and internal influences on man; the Family; present-day decadence in family life; the State; history of Occupational Society; working conditions and workers' risks; Trade Unionism and Co-operation; organized Occupational Society; International Society; the School group; Housing and Recreation; Dependency and Relief; the Defective; Delinquency; the Race problem and the Immigrant; Catholic Action.

TEXT: Rudiments of Sociology, *E. J. Ross*, (Bruce).

References: Current Government publications; the Papal Encyclicals.

Three hours a week, two semesters.

STRENGTH OF MATERIALS

Simple Stresses; Shear; Riveted Joints; Stresses in Thin Walled Cylinders; Welds; Torsion; Shear and Moment Diagrams for Beams; Stresses in Beams; Beam Deflection; combined Axial and Bending Stresses; Eccentric loads, Columns.

TEXTS: Strength of Materials, *Poorman*, (McGraw-Hill), Steel Construction, (American Institute of Steel Construction).

Three hours a week, one semester.

SURVEYING

Survey 1. A preliminary course dealing with the theory, adjustment, use and care of surveying instruments; fundamental surveying methods: measurements of lines, angles, differences in elevation; field practice in pacing, taping, surveying of areas, differential leveling.

TEXT: Elementary Surveying, *Breed*, (John Wylie).

Three hours a week, two semesters.

Survey Camp. A three weeks surveying camp is held at Truro, N. S., during the summer for all students who have completed Survey 1. The field work will include differential and profile leveling, traversing, topographical surveys, observation from median. This is a pre-requisite for Survey 2.

Survey 2. Draughting and lecture course in which the notes made in the field during Survey Camp are analysed and plotted.

TEXT: Elementary Surveying, *Breed*, (John Wylie).

Four hours a week, two semesters.

THERMODYNAMICS

Energy in general; Thermal energy; Gases and Vapour; Combustion of Fuels; Heat Transfer; Compression of Gases; Utilization of Heat; Internal Combustion Engine; Steam Engine; Nozzles; Turbines; Condensers; Boilers; Power Plant Cycles; Refrigeration.

TEXTS: Thermodynamics, *Emswiler and Schwartz*, (McGraw-Hill), Thermodynamic Properties of Steam, *Keenan and Keyes*, (John Wiley).

Three hours a week, one semester.